

Department of Public Works and Transportation

DIVISION OF SOLID WASTE SERVICES



Computer recycling at Transfer Station

***MONTHLY REPORT
MARCH 2000***



Printed on Recycled and Recyclable Paper

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OVERVIEW

Tonnage at a Glance

The following table shows key material flows during the current month, during the fiscal years to date (FY Total), and during the current calendar month in the two prior fiscal years. (County fiscal year 2000 began July 1, 1999.)

FACILITY	Mar FY 00	FY 00 Total	Mar FY 99	Mar FY 98
Materials Recycling Facility ⁽¹⁾	5,817 Tons	45,849 Tons	4,904 Tons	5,168 Tons
Brunswick Landfill Facility	12,679 Tons	101,838Tons	12,417 Tons	12,258 Tons
American Ash Recycling ⁽²⁾	3,464 Tons	27,269 Tons	N/A	N/A
Resource Recovery Facility ⁽³⁾	42,533 Tons	366,385 Tons	35,229 Tons	34,367 Tons
Yard Trim Compost Facility	2,456 Tons	43,413 Tons	1,241 Tons	1,648 Tons

⁽¹⁾For FY00, MRF tons reported are outgoing. For previous years, incoming was reported.

⁽²⁾Tons shipped out to ash recycling facility during the indicated period. All tons so shipped are recycled.

⁽³⁾RRF tonnage refers to tons burned (processed). Waste shipped from the Transfer Station but not burned is in the pit and is not included in the tonnage presented here. For FY00, these tonnages are preliminary, with adjustments made in the December and June monthly reports.

Revenue Analysis and Systems Evaluation - Set up Access data bases tabulating, and fully document-referencing, tonnage totals for the State Recycling Report, subsequently submitted to the State on time, April 1. Finished auditing 60% of the 6-month hauler reports. Completed Access training for Forms and Reports. Finalized DSWS Program Measures for publishing. Reviewed OMB budget document. Reviewed monthly report for numerical consistency. Responded to SWAC questions about recycling rate calculation. Attended meeting with City of Rockville on mixed paper program. Participated in regional consortium meeting in Fairfax on joint benchmarking methodology. Coordinated with Office of County Attorney and redrafted rate proposal for FY01. Drafted revised rate resolution for Council. Responded to Council Staff questions about FY01 budget. *Variable Rate*: conducted Variable Rate Task Force Meeting; continued drafting report; attended SWANA panel discussion on variable rate; tabulated curbside sampling results characterizing container set-outs.

CITIZEN COMMITTEES

Facilities Implementation Group (FIG) - The next FIG meeting is scheduled for April 18, 2000 at 7:30 p.m. at the Gothic Barn, 20900 Martinsburg Road. The April meeting with Mr. Duncan has been postponed to May 4 at 6:30 p.m. at the EOB.

Solid Waste Advisory Committee - SWAC met Tuesday, March 21, in the EOB 6th Floor Conference Room. The committee was briefed on the County Executive's Recommended FY01 Operating Budget. The SWAC Nominating Subcommittee interviewed 13 of the applicants. The Subcommittee's recommendations were sent to the County Executive. SWAC anticipates new committee members to be confirmed by the County Council on April 25, 2000.

COLLECTIONS

Refuse - Refuse collections were routine during the month of March with no disruptions to service.

Recycling - Mixed Paper recycling started in Area 7 on Monday, March 27, 2000, adding another 16,495 homes to the program. This brings the current participation house count to 77,016. Preparation work was completed on April 24, 2000, for the Mixed Paper start up in Area 5. During the Saturday drop-offs this month, 49,560 lbs. of mixed paper was received.

Contractor Performance - There were 7 complaints not resolved by the contractors. The County corrected all 7 of these issues. The number of

complaints received in March 2000 totaled 356. This represents a 6.56% reduction from March 1999, which had a total of 381 complaints.

Enforcement Actions –For the month of March, tickets were issued in the amount of \$4,250.00 for violations of County solid waste laws.

Customer Service – There were 5,664 incoming calls, with 236 follow-up calls as a quality control check, handled by the Customer Service Staff. Also, 2,932 bins were delivered.

Volunteer Activities – During the month of March, the Master Recycler/Composter program volunteers contributed 283 hours of service and reached approximately 3,600 residents. The volunteers handled 565 calls to the recycling hotline with an additional 504 calls coming into the answering machine. The Volunteer activities included weekend mixed paper drop-offs at Potomac, Poolesville, Silver Spring, Damascus and Bethesda.

WASTE MINIMIZATION

Drop-off Programs – A contract for textile recycling was awarded to the incumbent Dumont Export. Dumont will pay \$101 per ton of textiles.

Department of Environmental Protection's Home Composting and Source Reduction Activities – Developed contract and established schedule for advertising program in the Montgomery Journal throughout 2000, including ads addressing composting, grasscycling, compost bin sales, special events, and Internet-available information.

Full schedule of display ads for Grasscycling currently running in the Gazette Newspaper.

Workshops on worm composting in the classroom conducted at Watkins Mill H.S. as part of a continuing education program for MCPS teachers. Also conducted composting workshop for Green Manor Garden Club, and another MCPS program at Forest Oak Middle School.

Assisted with the development and execution of a half-day conference for the Clean Water Partners Program, including presentations by DSWS staff on SORRT's business recycling resources, EcoWise, hazardous materials, etc. Program also included presentations on environmental restoration using alternative planting materials.

Participated in a meeting to discuss revisions to County policy regarding the exclusive use of turf in right-of-ways. Other agencies included DPWT and DPS.

Meeting was precipitated by a resident following landscape alteration guidelines on the DEP website, askDEP.com, who was subsequently informed that non-conforming landscape materials (planting materials other than exotic turf grass) would have to be removed and replaced with sod. The meeting concluded with agreement that the existing County policy would be amended to allow for non-turfgrass plantings. This decision is in accordance with the County's solid waste goals to reduce grass clippings generation, and other environmental goals to reduce water consumption, energy demands, and reduce toxic or undesirable runoff products like pesticides and fertilizers.

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste Collection – 30 citizens who could not attend the next scheduled event came to the Transfer Station to drop off household hazardous waste in March. Two HHW events were held, one at the Transfer Station and one at Silver Spring Parking Lot #2. There were an estimated 902 and 320 participants, respectively.

Small Quantity Generator (Ecowise) Program – One Ecowise event was held in March. Eight companies attended.

AIR PERMITS AND ENVIRONMENTAL PROGRAMS

Resource Recovery Facility – In March, the Continuous Emissions Monitoring System (CEM) indicated the following sequence of events. During the last week of February, units 1 and 3 were operating. On February 29, unit #1 was brought offline at 11AM and unit #3 was brought offline at 3PM, and the entire facility was shutdown for scheduled annual maintenance. The maintenance activity was completed on March 1, and unit #3 was brought online at 9PM on March 1. Unit #2 was brought online at 2AM on March 2. The two units operated continuously until March 24. On March 24, at about 8 PM, unit 1 was also brought online to handle increased waste in the pit. The loads on the units were increased or decreased depending on the waste received at the RRF for processing. All three units operated continuously until March 30, when unit #1 was brought offline and units 2 and 3 continued to operate. There were no equipment malfunctions in March that affected unit operations or stack emissions.

CDROMS were updated to include CEM data up to March 31, 2000. Ten copies of CDs were generated and distributed to Poolesville and Rockville Libraries, DSWS staff and citizen committees, including SWAC and FIG.

As of March 31, the RRF has not received the "Title V Air Permit to Operate" from MDE. Ogden staff contacted MDE and was asked to submit an application

for renewal of the current permit, which expires on October 31, 2000. Ogden staff will prepare the application in May/June for review by the newly formed SWAC and FIG subcommittees in July. The application will be submitted to MDE in September 2000.

During the last week of March, reviewed the RRF "Annual Air Emissions Certification Report" prepared by Ogden staff and suggested some changes. The report was submitted to MDE on March 31.

Oaks Landfill Energy Recovery Facility: Leachate Evaporation Technology

– Since February 23, the Leachate Thermal Treatment System (LTTS) has been operating continuously and is using approximately 1,800 cubic foot of landfill gas per minute (CFM) to evaporate nine gallons of leachate per minute. The methane concentration remains at 48% to 50% with oxygen levels generally less than one percent. On March 6, the contractor conducted preliminary stack tests. During the testing, data indicated that the burners, as designed, were not providing adequate combustion efficiency. In addition, the particulate filters showed clogging. Currently, the contractor is making efforts to implement corrective measures. In the meantime, the facility continued to operate drawing approximately 1,800 cfm of gas to evaporate 9 gallons of leachate per minute. Occasionally, the leachate evaporation rate is reduced to 4 to 6 gallons per minute to see if the visibility of the plume decreases.

In March, independently carried out computations for Oaks Landfill air emissions, and reviewed the "Annual Emissions Certification Report" prepared by SCS Engineers and made several changes. The report was submitted to MDE on March 30.

Yard Trim Composting Facility: Consent Agreement - In March, MDE signed the final version of the Consent Agreement and transmitted copies to the County MES. Two wet sampling events were conducted for the spring season under the One-year Evaluation Program required by the Consent Agreement. One sampling event was conducted on March 11 and the second one on March 17. By the end of March, a total of nine wet sampling events and two dry sampling events have been completed. Results obtained so far indicated no exceedances of BOD (Biological Oxygen Demand) and TSS (Total Suspended Solids) discharge permit limits. The sampling program will continue through the end of May 2000. The laboratory analysis will be completed by the end of June, and ENSR is expected to complete the draft report in August 2000. DSWS plans to meet with MDE in September to discuss the results of the program and future course of action.

Yard Trim Survey – PBS&J submitted a draft of yard trim survey questions to the County for review and comment.

Contractual Work – Reviewed ENSR's draft report on Weston's Non-Air Media Ambient Sampling Program for the RRF and made several changes. The report, "Review of Roy F. Weston's Non-Air Media Sampling Data for the Montgomery County Resource Recovery Facility and Recommendations for Future Study", is

available for distribution. The RRF Ambient Air Sampling Report is expected by the last week of April. ENSR continues work on updating the RRF Health Risk study, Cumulative Impact Study and Epidemiological Study. The following draft reports are available for distribution to the FIG subcommittee:

1. Updated Dispersion and Deposition Modeling Analysis for the RRF.

Review of Roy F. Weston's Non-Air Media Sampling Data for the Montgomery County Resource Recovery Facility and Recommendations for Future Study.

RECYCLING

Public Outreach – The Division was notified that two elements of the comprehensive outreach campaign on recycling were nominated for the American Advertising Awards 2000. The comprehensive campaign continues to run. Work will begin on mixed paper recycling print ads. The number of presentations staff is providing to community associations and groups on curbside recycling and the mixed paper recycling program is rising. Staff will participate in many community events planned around April 22, Earth Day. Some of these include: Montgomery General Hospital environmental event, National Naval Medical Center Earth Week, Parkside Estates Easter Egg Hunt and Neighborhood Picnic, AVON 3-Day Hike for Breast Cancer, Silver Spring Elementary School Environmental Day, NIST Take Our Daughters To Work Day, Rockville Science Day, COMSAT Expo, and the Nuclear Regulatory Commission event.

The SORRT awareness campaign continues. Response has been strong. Calls regarding business recycling and the SORRT Program have increased since the campaign began. The campaign includes a 30-second TV advertisement, two 60-second radio spots, transit advertisements and print advertisements. A partnership between the Division and the MCPS Department of Facilities Management has been formed to improve the MCPS recycling program and recycling rate throughout the County's public schools.

The new web site address for the County's recycling program is www.MCRecycles.org. Other related web site addresses for specific County recycling programs are: www.SORRT.org and www.TRRAC.org.

Commercial Recycling and Waste Reduction – Staff continued to increase on-site consultation to businesses and schools. All the school cluster meetings were completed. Those that missed a cluster meeting were scheduled for immediate site visits. Staff focused attention on the private schools and helped them to establish their recycling programs. The business community was divided into 5 sectors and each sector was assigned a program specialist. Staff participated in 31 community and school events, and the calendar is filling up for the next month. We participated in two Chamber of Commerce meetings and met with over 100 business owners. Staff worked on plans to produce a

quick and easy recycling booklet for businesses and started preparation for Montgomery County Recycling Recognition Week.

Multi-Family Recycling – On-site evaluations of recycling programs continue. A campaign to increase awareness of the T.R.R.A.C. (Think Reduce and Recycle at Apartments and Condominiums) Program is under development. The Division continues to conduct a bin effectiveness study.

Mixed Paper Recycling – The refrigerator magnet reminding people of all the items collected for recycling at the curb is being distributed to households that already have mixed paper recycling collection, and to phase-in areas as they receive their start-up information about their new mixed paper recycling service. Vinyl stickers for blue bins have been produced, and will be mailed out shortly. They are designed as postcards. Another outreach effort in support of the mixed paper recycling program is a follow-up telephone survey. This survey is designed to be a short, friendly phone call to ask people about their experience with the new mixed paper recycling program. It is conducted about two weeks after the household's service has begun. The magnet and the vinyl bin sticker have been translated into Spanish and are being reviewed.

MCPS Recycling Activities – MCPS recycled 11% of its waste stream during the month of March. The Division continues to commit substantial resources and staff time to school recycling.

FACILITY ACTIVITIES

Yard Trim Compost Facility – Another agreement to tubgrind screening rejects was signed with SCA from 4/1/2000 to 3/31/2001. Currently there are 11,460 yards of screened rejects on site to be processed.

Bagging of Leafgro continues, weather permitting, at the Transfer Station. In March, 45,200 bags were produced at the Transfer Station and 19,900 bags were sold to distributors. A bagging line was installed at Dickerson to start a pilot operation in March. There were 40,500 bags and 22,050 bags shipped out.

Two thousand four hundred and fifty-six (2,459) tons of leaves were received at Dickerson and 7,788 cubic yards of Leafgro were sold.

Resource Recovery Facility – All units were off line on the first of the month for a planned total plant outage to inspect and test switchyard components and certain plant equipment that is commonly used by all units when operating. Units 2 and 3 were brought on line March 2. Operations for the month generally consisted of two boilers operating at 100% capacity until the last week of the month when all three units operated to control refuse pit volumes. After several days of three-unit operations to reduce the refuse pit volume, unit

#1 will be brought on line and unit #2 will be removed from service. There was 42,533 tons of waste processed at the Facility.

Scheduled outage service was performed on unit #1 and it was returned to service on March 25. On March 30, it was removed from service to repair the ram faceplate of one of the ash dischargers.

The Facility sold 24,661 MWH during the month, for approximately \$650,000 in revenues. During the plant outage, the Facility bought 81.9 MWH for in-house power.

CSX rail service has improved. There are only a few days of unacceptable service. DSWS is retaining the services of a rail consultant to evaluate the rail/truck operations. Their work is expected to start in May.

Two thousand four hundred fifty nine (2,459) tons of yard material was shipped by the rail system this month.

Approximately 3,464 tons of ash was shipped to the American Ash Recycling, Inc. facility in York, PA for recycling.

There were no reportable air or water quality excursions during the month. Ogden's regional environmental engineer was on site several days during the month. The following reports were submitted in the month:

February 2000 water supply report to MDE
Annual Emissions Certification/Air Toxics Certification to MDE
Air emissions data CD-ROMs were updated.

On March 23, a DEP contractor inspected the oil/grit separator in the storm water control system. This was a follow up to the DEP/DSWS joint inspection in February.

Five tours were given to more than 130 people, including the fourth group of Poolsville Elementary second grade classes, three classes from Montgomery College, a group of home schoolers, a group from the Industrial College of the Armed Forces, and two County residents.

Materials Recovery Facility – Approximately 2,388 tons of old newspaper; 1,553 tons of commingled material; and 1,876 tons of mixed paper were shipped out after processing.

Review of possible designs for the west wing expansion continued.

The bid request for improvements to the pre-sort system was issued.

Construction work on the main tipping floor associated with the mixed paper program was completed.

Oaks Landfill – The contractor for the Phase II closure construction, Barbella Environmental Technology, Inc., completed the installation of geomembrane in the last subarea of the 65-acre Phase II area. Barbella continues placing geocomposite drainage layer and soil cover and seeding completed areas. Barbella is approximately 90% complete with the construction work. Most of the remaining work consists of storm water drainage structures and placement of cover soils over the last work area.

Cherry Hill Construction, the contractor for the Phase I closure construction (about 68 acres on the western side of the landfill) resumed work in March after a winter shutdown. Cherry Hill is preparing grades and placing bedding layer for the installation of liner in two new subareas later this spring. Construction is approximately 45% done.

SCS Field Services installed three additional extraction wells to achieve further reductions in methane migration on the northern side of the landfill.

Transfer Station – During March, Ogden Martin shipped via rail 42,819 tons of processible waste from the Transfer Station to the Resource Recovery Facility, 5,528 more tons than shipped in March 1999.

Litter was collected by MES along Shady Grove Road from Route 355 to the intersection with Muncaster Mill Road.

Work continued on correcting electrical problems affecting outdoor lighting. The County and Ogden resolved all remaining issues with the contractor for the Nonprocessable Waste facility.

Atlantic Builders Group, Inc. began construction of Phase III master plan improvements in the upper lot at the Transfer Station.

Ogden started replacement of lighting on the tipping floor to brighten and improve visibility/safety in this area.

Site 2 Property Management – DSWS initiated the development of the scope of work to renovate the historic Chiswell farmhouse. Winterizing the Chiswell farmhouse is complete.

Solid Waste Facilities Master Plan - Will inspect plantings at the intersection of Martinsburg and Washe Roads the last week in April to ensure an 85% survival rate for the 300 plantings.

Out-of-County Haul

Brunswick County, Virginia – During the month of March, about 8,938 tons of ash residue and 3,741 tons of nonprocessable waste were transported to the County's dedicated disposal cell at the Brunswick Waste Management Facility,

Inc. Landfill in Brunswick County, VA. Three thousand ninety five (3,095) tons of dirt, rock and wood were recycled at Clean Rock in Hagerstown, MD. The substantial increase in rubble recycling is a result of direct hauling from the Highway Services depot in Silver Spring to Clean Rock of mixed asphalt and dirt and other recyclable commodities.

York, Pennsylvania - During the month of March, 3,464 tons of ash residue (back hauled by rail from the RRF) were shipped from the Transfer Station to American Ash Recycling in York, PA to be recycled into aggregate.

Linden Farm Renovations – The project is substantially complete but some items remain to be completed. Remaining construction activities being managed by DFS are in progress.

Phase I of the plantings to screen the Compost Facility from the Linden Farm is complete. The County and SCA are working with a landscape design firm to complete design of Phase II this fall.

GENERAL INFORMATION

Important Telephone Numbers

General information on solid waste- 240/777-6400

Customer Service- 240/777-6410

Recycling Hotline- 301/590-0046 (Hours of operation: Mon. - Fri., 1:00 - 4:00 PM)

Transfer Station- 301/840-2370

Materials Recovery Facility- 301/417-1447- Maryland Environmental Service

Resource Recovery Facility- 301/349-5685 County Office
301/916-3031 Ogden Martin Systems of
Montgomery

Yard Trim Compost Facility- 301/428-8185

Internet for DSWS- www.dpwt.com, then click on Solid Waste Services

Note: All comments, questions, and suggestions on the contents of this report should be addressed to:

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SOLID WASTE FACTS IN A NUTSHELL

<i>TOPIC OR FACILITY</i>	
Current Recycling Rate in Montgomery County	36%
Recycling Goal by 2000	50%
New Recycling Programs Scheduled for FY 00	Implementation of Residential Mixed Paper Collection March 1999- Textile Recycling Pilot began
Resource Recovery Facility (RRF)	Guaranteed Capacity = 85% of 1800 tpd on an annual basis (558,450 tons/yr).
Yard Trim Composting Facility (DCF)	Operations Limited to Receipt of 77,000 tons/year under Sugarloaf Settlement Agreement. FY 99 tons received- 59,800
# Residences receiving trash collection by County contractors	82,599
# Residences receiving collection of recyclables in blue bins and yard waste collection	195,405
Term of out-of-county waste transportation and disposal contract with Brunswick Waste Management Facility, Inc.	June 19, 1997 through June 30, 2012 with an option for a five-year renewal. (Service started on October 20, 1997.)

GLOSSARY OF ACRONYMS

AAR	American Ash Recycling, Inc.
APC	Air Pollution Control
ASME	American Society of Mechanical Engineers
BFI	Browning Ferris Industries
CEM	Continuous Emissions Monitoring
CIP	Capital Improvements Program
COG	Metropolitan Washington Council of Governments
CSX	Chesapeake Transportation Systems
DEP	Department of Environmental Protection
DFS	Division of Facilities and Services
DPS	Department of Permitting Services
DPWT	Department of Public Works and Transportation
DSWS	Division of Solid Waste Services
EPA	Environmental Protection Agency
FIG	Facilities Implementation Group
HCFA	Health Care Financing Administration
HHW	Household Hazardous Waste
IFB	Invitation For Bid
IRS	Internal Revenue Service
LTTS	Leachate Thermal Treatment System
MCPS	Montgomery County Public Schools
MDE	Maryland Department of Environment
MES	Maryland Environmental Service
mg/l	milligrams per liter
MNCPPC	Maryland National Capital Park and Planning Commission
MRF	Materials Recovery Facility
MWH	Mega Watt Hours
NPDES	National Pollution Discharge Elimination System
OMB	Office of Management and Budget
PEPCO	Potomac Electric Power Company
ROL	Reduced Operating Level
RRF	Resource Recovery Facility
SCA	Sugarloaf Citizens Association
SORRT	Smart Organizations Reduce and Recycle Tons
SWAC	Solid Waste Advisory Committee
TCLP	Toxic Characteristic Leaching Procedure
TPD	Tons Per Day
TRRAC	Think Reduce and Recycle at Apartments and Condominiums
WM	Waste Management
YTCF	Yard Trim Composting Facility